

**Robert A. Miller**  
Curriculum Vitae  
June 2025

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USA

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**Education**

1982 Ph.D., Economics, University of Chicago  
1977 B. Ec., (First Class Honours), Australian National University

**Honors**

Fellow of the International Association of Applied Econometrics 2018-  
Fellow of the Econometric Society 2017-  
Carnegie Mellon Department of Economics Teaching Award 1991.  
Australian Public Service Scholarship 1977.  
Commonwealth Scholarship 1972 – 1976.

**Research and Teaching Interests**

Applied Microeconomics  
Strategy

**Positions**

2023 (summer) Leverhulme Visiting Professor, University College of London.  
2018 (spring quarter) Visiting Professor, Department of Economics, Northwestern University.  
2017 (fall semester) Visiting Professor, Department of Economics, University of Wisconsin.  
2016 (fall semester) Visiting Professor, Department of Economics, University of Pennsylvania.  
2012- Richard M. Cyert and Morris DeGroot Professor in Economics and Statistics, Tepper School of Business, Carnegie Mellon University.  
1996- Professor of Economics and Strategy, Tepper School of Business, Carnegie Mellon University.  
2004 Visiting Professor, Department of Economics, University of Essex.  
2000 (spring semester) Visiting Professor, Department of Economics, Yale University.  
1987-1996 Associate professor of Economics, Graduate School of Industrial Administration, Carnegie Mellon University.  
1982-1987 Assistant Professor of Economics, Graduate School of Industrial Administration, Carnegie Mellon University.  
1977-1978 Tutor, Department of Economics, Australian National University.

## Publications

"Structural estimation of executive compensation," with Yizhen Xie, *Foundations and Trends® in Accounting*, forthcoming, 2025.

"Was Sarbanes-Oxley costly: evidence from optimal contracting on CEO compensation," with George-Levi Gayle and Chen Li, *Journal of Accounting Research*, Vol. 60, No. 4, pp. 1189 – 1234, September 2022.

"Winning by default: why is there so little competition in government procurement?" with Karam Kang, *The Review of Economic Studies*, Vol 89, No. 3, pp. 1495 – 1556, May 2022.

"2021 Klein Lecture: American dream delayed: shifting determinants of home ownership," with Natalia Khorunzhina, *International Economic Review*, Vol. 63, No. 1, pp. 3-35, February 2022.

"Innovation and diffusion of medical treatment," with Barton H. Hamilton, Andres Hincapie and Nicholas W. Papageorge, *International Economic Review*, Vol. 62, No. 3, pp. 953-1009, August 2021.

"Bidding frictions in ascending auctions," with Aaron Barkley and Joachim R. Groeger, *Journal of Econometrics*, Vol. 223, No. 2, pp. 376-400, August 2021.

"Identifying dynamic discrete choice models off short panels," with Peter Arcidiacono, *Journal of Econometrics*, Vol. 215, No. 2, pp. 474-485, March 2020.

"Nonstationary dynamic models with finite dependence," with Peter Arcidiacono, *Quantitative Economics*, Vol. 10, No. 3, pp. 853-890, July 2019.

"How well does agency theory explain executive compensation?" with George-Levi Gayle and Chen Li, *Federal Reserve Bank of St Louis Review*, Vol. 100, No.3, pp. 201-236, Third Quarter 2018.

"Promotion, turnover and compensation in the executive labor market," with George-Levi Gayle and Limor Golan, *Econometrica*, Vol. 83, No. 6, pp. 2293-2369, November 2015.

"Identifying and testing models of managerial compensation," with George-Levi Gayle, *The Review of Economic Studies*, Vol. 82, No. 3, pp. 1074-1119, July 2015.

"Gender differences in executive compensation and job mobility," with George-Levi Gayle and Limor Golan, *Journal of Labor Economics*, Vol. 30, No. 4, pp. 829-872, October 2012.

"Conditional choice probability estimation of dynamic models with unobserved heterogeneity," with Peter Arcidiacono, *Econometrica*, Vol. 79, No. 6, pp. 1823-1868, November 2011.

"Has moral hazard become a more important factor in managerial compensation?" with George-Levi Gayle, *American Economic Review*, Vol. 99, No. 5, pp. 1740-1769, December 2009.

"Insider information and performance pay," with George-Levi Gayle, *CESifo Economic Studies*, Vol. 55, No. 3-4, pp. 515-541, May 2009.

"Estimating the gains from trade in limit-order markets," with Burton Hollifield, Patrik Sandas and Joshua Slive, *Journal of Finance*, Vol. 61, No. 6, pp. 2753-2804, December 2006.

"Empirical analysis of limit order markets," with Burton Hollifield and Patrik Sandas, *The Review of Economic Studies*, Vol. 71, No. 3, pp. 1027-1063, October 2004.

"Managerial compensation and the cost of moral hazard," with Mary Margiotta, *International Economic Review*, Vol. 41, No. 3, pp. 669-719, August 2000.

"The effect of work experience on female wages and labor supply," with Sumru Altug, *The Review of Economic Studies*, Vol. 65, No. 1, pp. 45-85, January 1998.

"A microeconomic comparison of household behavior between countries," with Holger Sieg, *Journal of Business and Economic Statistics*, Vol. 15, pp. 237-254, April 1997.

"Human capital development and welfare participation," with Seth Sanders, *Carnegie Rochester Conference Series on Public Policy*, Vol. 46, pp. 1-45, June 1997.

"Estimating models of dynamic optimization with microeconomic data," in *Handbook of Applied Econometrics*, M. Pesaran and P. Schmidt, editors, Basil Blackwell, Vol. 2, pp. 246-299, 1997.

"Plant objectives as revealed by shop floor activities," with Prasad Ramnath, *Journal of Operations Management*, Vol. 12, No. 4, 273-296, June 1995.

"New product pricing: the marketing of innovations," Chapter 5 in *Economic Approaches to Innovation*, edited by S. Dowrick, Edward Elgar, pp. 98-119, 1995.

"Transforming productivity in multinational manufacture using demand flow technology," with E. Kampouris, *Long Range Planning*, Vol. 27, No. 6, pp. 82-95, December 1994.

"A simulation estimator for dynamic models of discrete choice," with V. Joseph Hotz, Seth Sanders and Jeffrey Smith, *The Review of Economic Studies*, Vol. 61, No. 3, pp. 265-290, April 1994.

"What can panel data tell us about labour markets?" *Journal of Labour Economics and Productivity*, Vol. 5, No. 2, 165-180, September 1993.

"Conditional choice probabilities and the estimation of dynamic models," with V. Joseph Hotz, *The Review of Economic Studies*, Vol. 60, No. 3, pp. 497-531, July 1993.

"Labor supply with a minimum hours threshold: a comment," *Carnegie Rochester Conference Series on Public Policy*, Autumn 1990, Vol. 33, 169-180.

"Household choices in equilibrium," with Sumru Altug, *Econometrica*, Vol. 58, No. 3, pp. 543-570 May 1990.

"Innovation and reputation", *Journal of Political Economy*, Vol. 96, No. 4, pp. 741-765, August 1988.

"An empirical analysis of life cycle fertility and female labor supply," with V. Joseph Hotz, *Econometrica*, Vol. 56, No. 1, pp. 91-119, January 1988.

"Job matching and occupational choice," *Journal of Political Economy*, Vol. 92, No. 6, pp. 1086-1120, December 1984.

"A stochastic analysis of the tree paradigm," with Karl Voltaire, *Journal of Economic Dynamics and Control*, Vol. 6, No. 4, pp. 371-386, December 1983.

"Price control in a perfect foresight model of an extractive industry," *Resources and Energy*, Vol. 3, No. 3, pp. 259-283, November 1981.

"A sequential stochastic tree problem," with Karl Voltaire, *Economic Letters*, Vol. 5, No. 2, pp. 135-40, 1980.

"Resource extraction and anticipated demand shifts," with Michael Knoll and John Martin, *Economic Letters*, Vol. 6, No. 3, pp. 271-74, 1980.

"Optimal voting turnouts," (with H. Geoffrey Brennan), *Atlantic Economic Journal*, Vol. 8, No. 3, pp. 62-69, September 1979.

### **Working Papers**

["Life-cycle fertility, human capital, and family polices: A discrete-continuous choice framework,"](#) with George-Levi Gayle and Andres Hincapie, October 2024.

["Insider and outsider careers in executive management,"](#) with Andrea Flores, George-Levi Gayle and Limor Golan, May 2022.

["Internal migration and work experience in dual labor markets,"](#) with Joan Llull, August 2018.

["Moral hazard, manipulation and long term contracting: an empirical analysis,"](#) with Jeremy Bertomeu, Ivan Marinovic and Felipe Varas, April 2018.

### **Current Work in Progress**

"Optimal long term executive contracts," with Anh Nguyen.

"Modeling job search and matching with panel data on vacancies and applications," with Rebecca Lessem.

"Planning of family succession," with Ciprian Domnisoru.

## **Former Graduate Students**

Kim Balls, Mary Margiotta, Prasad Ramnath, Rafael Mendible, Holger Sieg, Fatih Guvenen, Mico MrKaic, Patrik Sandas, George Levi Gayle, Ari Kang, Natalia Khorunzhina, Chen Li, John Gardner, Aaron Barkley, Ciprian Domnisoru, Andres Hincapie, Minyoung Rho, Faith Feng, Mauro Moretto, Jaepil Lee.

## **Recent Invited Addresses, Keynote Lectures and Short Courses**

Empirical Microeconomics Workshop III at the Banff Centre, Keynote Lecture, hosted by University of Calgary Economics Department, August 20 - 22, 2016.

Structural Microeconometrics Workshop in the Barcelona Graduate School of Economics Summer Forum, Invited Speaker, June 12, 2017.

North American Econometric Society Summer Meeting, Washington University, Semi-Plenary Session on the Economics of Contracts, June 15 -18, 2017.

Annual Health Econometrics Workshop, Keynote Paper, Washington University, September 29 - 30, 2017.

CEMMAP Masterclass, University College London, March 12 - 13, 2018.

Danish Graduate Program in Economics, Short Course, Copenhagen Business School, September 18 – 20, 2018.

Georgetown University, Short Course, October 25 – 26, 2018.

Asia-Pacific Industrial Organization Conference, Invited Speaker, University of Melbourne, December 2018.

2019 Econometric Society Summer School in Dynamic Structural Econometrics, University of Chicago, July 2019.

University of Tokyo, Short Course, October 29 – 30, 2019.

2020 Structural Econometrics Summer Course, Stanford University (zoom), June 2020.

2021 Econometric Society Summer School in Dynamic Structural Econometrics, Bonn University (zoom), July 2021.

2021 Klein Lecture, University of Pennsylvania, October 2021.

Bristol Econometrics Workshop, keynote speaker, June 2022.

Econometric Society Summer School in Dynamic Structural Econometrics, lectures plus conference presentation, MIT, August 2022.

CEMMAP, University College of London and Institute of Fiscal Studies, invited lectures on market microstructure and optimal contracting, September 2022.

Econometric Society Summer School in Dynamic Structural Econometrics, lectures plus

conference presentation, Australian National University, December 2022.

Asia Pacific Industrial Organization 2023, invited speaker, Sydney University, December 2022.

National University Singapore, Short Course, May 2023.

Econometric Society Summer School in Dynamic Structural Econometrics, lectures, University of Lausanne, August 2023.

Econometric Society Summer School in Dynamic Structural Econometrics, lectures, Australian National University, December 2023.

University College London, Short Course, June 2023.

Tilberg University, Short Course, November 2023.

Leuven University, Short Course, December 2023.

Asia Pacific Industrial Organization 2023, invited speaker, Hong Kong University of Science and Technology, December 2023.

Econometric Society Summer School in Dynamic Structural Econometrics, lectures, University of Wisconsin Madison, August 2024.

### **Recent Seminar and Conference Presentations**

University of Pennsylvania Wharton School, April 2016; Barcelona Graduate School of Economics Summer Forum, June 2016; Federal Reserve Board, Washington D.C. September 2016; Arizona State Economics Department, October 2016; Stanford Graduate School of Business (empirical microeconomics workshop), October 2016; Stanford Graduate School of Business (accounting workshop), October 2016; Harvard Business School, November 2016; University of Pennsylvania Economics Department, November 2016; Federal Reserve Bank New York, November 2016; K.U. Leuven Economics Department, Brussels, December 2016; Sydney University Economics Department, March 2017; University of New South Wales Economics Department, March 2017; University of Queensland Economics Department, March 2017; University of Melbourne Economics Department, March 2017; University of Melbourne Finance Department, March 2017; Australian National University Economics Department, March 2017; UCLA Economics Department, May 2017; California Institute of Technology Social Sciences Division May 2017, Cowles Summer Conference Yale University, June 2017; Conference on Implementation of Structural Dynamic Models, University College London, August, 2017; Texas A & M Economics Department, September 2017; Rice University Economics Department, September 2017; University of Houston Economics Department September 2017; Duke University Economics Department, November 2017; University of North Carolina, November 2017; University of Wisconsin Economics Department Madison, November 2017; Theory and Inference in Capital Market Research Conference, Stanford University, December 2017; Conference on Optimization and Machine Learning in Economics, University College London, March 2018; Northwestern Economics

Department, May 2018; 2nd Conference on Structural Dynamic Models, University of Copenhagen, May 2018; Cowles Summer Conference Yale University, June 2018; Barcelona Graduate School of Economics Summer Forum, June 2018; Copenhagen Business School, September 2018; Georgetown Economics Department, October 2018; Burton Conference, Columbia Business School, November 2018. University of California Berkeley, April 2019; Stanford University Economics Department, April 2019; University of California San Diego Rady School of Management, April 2019; Barcelona Graduate School of Economics Summer Forum, June 2019; III Workshop on Structural Industrial Organization, Colombia, October 2019; University of Tokyo Economics Department, October 2019; CIDE Economics Division (zoom), May 2021; Cowles Summer Conference Yale University (zoom), June 2021; Ohio State University Economics Department, April 2022; Queens University Economics Department, April 2022; Cornell University Economics Department, May 2022; University of Rochester Economics Department, May 2022; Copenhagen Business School, May 2022; University of Copenhagen Economics Department, May 2022; Toulouse University Economics Department, May 2022; Sciences Po, Paris, May 2022; CREST Paris, May 2022; Aarhus University Economics Department, May 2022; Aalto University, Helsinki, May 2022; Concordia University Economics Department, Montreal, November 2022; Royal Holloway University Economics Department, London, February 2023; Exeter University Economics Department, February 2023; Bristol University Economics Department, March 2023; Rice University Economics Department, April 2023; University of Texas Austin Economics Department, April 2023; University of Houston Economics Department, April 2023; Cambridge Economics Department, May 2023; National University Singapore Economics Department, May, 2023; University College London Economics Department and Institute for Fiscal Studies May 2023; London School of Economics, May 2023; Imperial College Economics and Public Policy Department, May 2023; Tilburg University Economics Department May 2023; Erasmus University Econometrics Institute, June 2023; Queen Mary University Economics Department, September 2023; Manchester University Economics Department, September 2023; Essex University Economics Department, September 2023; Tilburg Economics Department, November 2023; University of Wisconsin Madison Dynamic Structural Econometrics Conference, July 2024; Florida State University Economics Department, September 2024; Washington University Economics Department, October 2024; Hong Kong University, April 2025; Olin School of Business, Washington University, April 2025; Toulouse School of Economics, May 2025, Center for the Economics of Human Development, University of Chicago, June 2025.